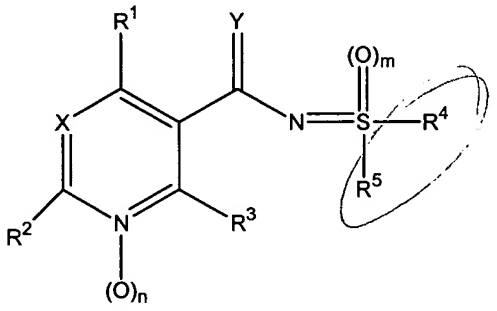
In the Claims:

25. (Previously Added) An acylsulfimide of the formula (I) or a salt thereof,



(I)

C1 where the symbols and indices are as defined below:

X is CH;

Y is O or S;

n is 0 or 1;

m is 0 or 1;

R^1 is C_1-C_6-haloalkyl;

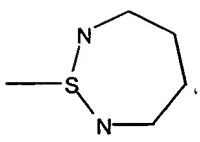
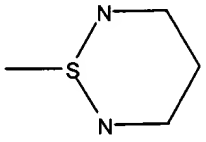
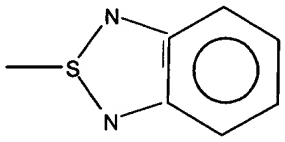
R^2 and R^3 are identical or different and are H, halogen or a branched or unbranched (C_1-C_6)-alkyl group, where one or two CH_2 groups may be replaced by -O-or -S-or -N(C_1-C_6)-alkyl, with the proviso that heteroatoms may not be adjacent to one another;

R^4 and R^5 are identical or different and are R^6, -C(=W)R^7, -C(=NOR^7)R^7, -C(=NN$R^7{}_2$)R^7, -C(=W)OR^7, -C(=W)N$R^7{}_2$, -OC(=W)R^7, -OC(=W)OR^7, -NR^7C(=W)R^7, -N[C(=W)R^7]$_2$, -NR^7C(=W)OR^7, -C(=W)NR^7-N$R^7{}_2$, -C(=W)NR^7-NR^7[C(=W)R^7], -NR^7-C(=W)N$R^7{}_2$, -NR^7-NR^7C(=W)R^7, -NR^7-N[C(=W)R^7]$_2$, -N[(C=W)R^7]-N$R^7{}_2$, -NR^7-NR^7[(C=W)WR^7],

$-NR^7[(C=W)NR^7{}_2]$, $-NR^7(C=NR^7)R^7$, $-NR^7(C=NR^7)NR^7{}_2$, $-O-NR^7{}_2$, $-O-NR^7(C=W)R^7$, $-SO_2NR^7{}_2$, $-NR^7SO_2R^7$, $-SO_2OR^7$, $-OSO_2R^7$, $-OR^6$ $-NR^7{}_2$, $-SR^7{}_2$ $-SiR^7{}_3$, $-PR^7{}_2$, $-P(=W)R^7$, $-SO_2R$, $-SO_2R^7$, $-PW_2R^7{}_2$, $-PW_3R^7{}_2$;

or

R^4 and R^5 together with the sulfur atom form a saturated or unsaturated ring system having 3 to 8 carbon atoms, which is optionally mono-or polysubstituted by R^9, wherein one of the carbon atoms is optionally replaced by a heteroatom selected from the group consisting of O, S, SO, SO_2 and N-R^a and wherein said ring is optionally condensed with one or two optionally substituted phenyl radicals or an optionally substituted 5-or 6-membered saturated ring or is an optionally substituted ring system selected from the group consisting of:


,

and

,

wherein said optionally substitutent(s) is R^9;

wherein:

R^9 are identical or different and are R^{10}, R^{11}, -C(W) R^{10}, -C=N(OR^{10})R^{10}, -C(=NNR^{10}_2)R^{10}, -C(=W)R^{10}, -C(=W)NR^{10}_2, -OC(=W)R^{10}, -OC(=W)OR^{10}, -NR^{10}C(-W)R^{10}, -N[C(=W)R^{10}_2], -NR^{10}C(-W)OR^{10}, -C(=W)NR^{10}-NR^{10}_2, -(=W)NR^{10}-NR^{10}, -[-C(=W)R^{10}], -NR^{10}-(C=W)-NR^{10}_2, -NR^{10}-NR^{10}C(=W)R^{10}, -NR^{10}-N[(C=W)R^{10}]$_2$, -N[(C=W)R^{10}]-NR^{10}_2, -NR^{10}-N[(C=W)WR^{10}], -NR^{10}[(C=W)-NR^{10}_2], -NR^{10}(C=NR^{10})R^{10}, -NR^{10}(C=NR^{10})NR^{10}_2, -O-NR^{10}_2, -O-NR^{10}(C=W)R^{10}, -SO_2-NR^{10}_2, -$NR^{10}SO_2R^{10}$, SO_2OR^{10}, -OSO_2R^{10}, -OR^{10}, -NR^{10}_2, -SR^{10}, -SiR^{10}_3, -PR^{10}_2, -P(=W)R^{10}_2, -SOR^{10}, -SO_2R^{10}, -$PW_2R^{10}_2$, -$PW_3R^{10}_2$; or two radicals R^9 together form (=W), (=NR^{10}), (=$CR_2{}^{10}$), (=CHR^{10}) or (=CH_2);

C 1

R^{10} are identical or different and are (C_1-C_6)-alkyl, (C_2-C_6)-alkenyl, (C_2-C_6)-alkynyl, (C_3-C_8)-cycloalkyl, (C_4-C_8)-cycloalkenyl, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkyl, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkyl, (C_3-C_8)-cycloalkyl-(C_2-C_4)-alkenyl-(C_4-C_8)-cycloalkenyl-(C_2-C_4)-alkenyl, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkyl, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkyl, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkyl, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenyl, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenyl, aryl, heterocyclyl;

where the radicals mentioned are optionally substituted by one or more radicals R^{11}; and

R^{11} are identical or different and are halogen, cyano, nitro, hydroxyl, thio, amino, formyl, (C_1-C_6)-alkanoyl, (C_1-C_6)-alkoxy, (C_3-C_6)-alkenyloxy, (C_3-C_6)-alkynyloxy, (C_1-C_6)-haloalkyloxy, (C_3-C_6)-haloalkenyloxy, (C_3-C_6)-haloalkynyloxy, (C_3-C_8)-cycloalkoxy, (C_4-C_8)-cycloalkenyloxy, (C_3-C_8)-halocycloalkoxy, (C_4-C_8)-halocycloalkenyloxy, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkoxy, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkoxy, (C_3-C_8)-cycloalkyl-(C_2-C_4)-alkenyloxy, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkenyloxy, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkoxy, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkoxy, (C_2-C_6)-alkynly-(C_3-C_8)-cycloalkoxy, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenyloxy, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenyloxy, (C_1-C_4)-alkoxy-(C_1-C_6)-alkoxy, (C_1-C_4)-alkoxy-(C_3-C_6)-alkenyloxy, carbamoyl, (C_1-C_6)-mono-or dialkylcarbamoyl, (C_1-C_6)-mono-or dihaloalkylcarbamoyl, (C_3-C_8)-mono-or dicycloalkylcarbamoyl, (C_1-C_6)-alkoxycarbonyl, (C_3-C_8)-cycloalkoxycarbonyl, (C_1-C_6)-alkanoyloxy, (C_3-C_8)-cycloalkanoyloxy, (C_1-C_6)-haloalkoxycarbonyl, (C_1-C_6)-haloalkanoyloxy, (C_1-C_6)-alkanamido, (C_1-C_6)-haloalkanamido, (C_2-C_6)-alkenamido, (C_3-C_8)-cycloalkanamido, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkanamido, (C_1-C_6)-alkylthio, (C_3-C_6)-alkenylthio, (C_3-C_6)-alkynylthio, (C_1-C_6)-haloalkylthio, (C_3-C_6)-haloalkenylthio, (C_3-C_6)-haloalkynylthio, (C_3-C_8)-cycloalkylthio, (C_4-C_8)-cycloalkenylthio, (C_3-C_8)-halocycloalkylthio, (C_4-C_8)-halocycloalkenylthio, (C_3-C_8)-

C 1

cycloalkyl-(C_1-C_4)-alkylthio, (C_4-C_8) -cycloalkenyl-(C_1-C_4)-alkylthio, (C_3-C_8)-cycloalkyl-(C_3-C_4)-alkenylthio, (C_4-C_8)-cycloalkenyl-(C_3-C_4)-alkenylthio, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylthio, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkylthio, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkylthio, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylthio, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenylthio, (C_1-C_6)-alkylsulfinyl, (C_3-azC_6)-alkenylsulfinyl, (C_3-C_6)-alkynylsulfinyl, (C_1-C_6)-haloalkylsulfinyl, (C_3-C_6)-haloalkenylsulfinyl, (C_3-C_6)-haloalkynylsulfinyl, (C_3-C_8)-cycloalkylsulfinyl, (C_4-C_8)-cycloalkenylsulfinyl, (C_3-C_8)-halocycloalkylsulfinyl, (C_4-C_8)-halocycloalkenylsulfinyl, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkylsulfinyl, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylsulfinyl, (C_3-C_8)-cycloalkyl-(C_3-C_4)-alkynylsulfinyl, (C_4-C_8)-cycloalkenyl-(C_3-C_4))-alkenylsulfinyl, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylsulfinyl, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkylsulfinyl, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkylsulfinyl, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylsulfinyl, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenylsulfinyl, (C_1-C_6)-alkylsulfonyl, (C_3-C_6)-alkenylsulfonyl, (C_3-C_6)-alkynylsulfonyl, (C_1-C_6)-haloalkylsulfonyl, (C_3-C_6)-haloalkenylsulfonyl, (C_3-C_6) haloalkynylsulfonyl, (C_3-C_8)-cycloalkylsulfonyl, (C_4-C_8)-cycloalkenylsulfonyl, (C_3-C_8)-halocycloalkylsulfonyl, (C_4-C_8)-halocycloalkenylsulfonyl, (C_3-C_8)-cycloalkyl-(C_1-C_4)-

C 1

alkylsulfonyl, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylsulfonyl, (C_3-C_8)-cycloalkyl-(C_3-C_4))-alkenylsulfonyl, (C_4-C_8)-cycloalkenyl-(C_3-C_4))-alkenylsulfonyl, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylsulfonyl, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkylsulfonyl, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkylsulfonyl, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylsulfonyl, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenylsulfonyl, (C_1-C_6)-dialkylamino, (C_1-C_6)-alkylamino, (C_3-C_6)-alkenylamino, (C_3-C_6)-alkynylamino, (C_1-C_6)-haloalkylamino, (C_3-C_6)-haloalkenylamino, (C_3-C_6)-haloalkynylamino, (C_3-C_8)-cycloalkylamino, (C_4-C_8)-cycloalkenylamino, (C_3-C_8)-halocycloalkylamino, (C_4-C_8)-halocycloalkenylamino, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkylamino, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylamino, (C_3-C_8)-cycloalkyl-(C_3-C_4))-alkenylamino, (C_4-C_8)-cycloalkenyl-(C_3-C_4)-alkenylamino, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylamino, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkylamino, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkylamino, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylamino, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenylamino, (C_1-C_6)-trialkylsilyl, aryl, aryloxy, arylthio, arylamino, aryl-(C_1-C_4)-alkoxy, aryl-(C_3-C_4)-aklenyloxy, aryl-(C_1-C_4)-alkylthio, aryl-(C_2-C_4)-alkenylthio, aryl-(C_1-C_4)-aklylamino, aryl-(C_3-C_4)-alkenylamino, aryl-(C_1-C_6)-dialkylsilyl, diaryl-(C_1-C_6)-alkylsilyl, triarylsilyl and 5-or 6-membered heterocyclyl, the cyclic moiety of the fourteen last-mentioned radicals are optionally

C 1

substituted by one or more radicals selected from the group consisting of halogen, cyano, nitro, amino, hydroxyl, thio, (C_1-C_4)-alkyl, (C_1-C_4)-haloalkyl, (C_3-C_8)-cycloalkyl, (C_1-C_4)-alkoxy, (C_1-C_4)-haloalkoxy, (C_1-C_4)-alkylthio, (C_1-C_4)-haloalkylthio, (C_1-C_4)-alkylamino, (C_1-C_4)-haloalkylamino, formyl and (C_1-C_4)-alkanoyl;

R^a is H, (C_1-C_4)-alkyl, branched or unbranched, (C_1-C_4)-alkanoyl, (C_1-C_4)-alkoxycarbonyl, (C_1-C_4)-alkyl-or –dialkylaminocarbonyl or (C_1-C_4)-alkylsulfonyl;

C 1 W is O or S;

R^6 are identical or different and are (C_1-C_{20})-alkyl, (C_2-C_{20})-alkenyl, (C_2-C_{20})-alkynyl, (C_3-C_8)-cycloalkyl, (C_4-C_8)-cycloalkenyl, (C_8-C_{10})-cycloalkynyl, aryl or heterocyclyl, where the radicals mentioned may optionally be mono-or polysubstituted, and

R^7 is H or R^6

wherein:

heterocycle is a saturated, partially saturated or aromatic ring having 3 to 6 carbon atoms in which one of the carbon atoms is selected from the group consisting of O, S and N or is a heterocyclic ring selected from the group consisting of thiazole, oxazole, imidazole, isothiazole, isoxazole, pyrazole, 1,3,4-oxadiazole, 1,3,4-thiadiazole, 1,3,4-triazole, 1,2,4-oxadiazole, 1,2,4-thiadiazole, 1,2,4-triazole, 1,2,3-triazole, 1,2,3,4-tetrazole, benzo[b]thiophene, benzo[b]furan, indole, benzo[c]thiophene, benzo[c]furan, isoin-

dole, benzoxazole, benzothiazole, benzimidazole, benzisoxazole, benzisothiazole, benzopyazole; benzothiadiazole, benzotriazole, dibenzofuran, dibenzothiophene, carbazole, pyrazine, pyrimidine, pyridazine, 1,3,5-triazine, 1,2,4-triazine, 1,2,4,5-tetrazine, quinoline, isoquinoline, quinoxaline, quinazoline, cinnoline, 1,8-naphthyridine, 1,5-naphthyridine, 1,6-naphthyridine, 1,7-naphthyridine, phthalazine, pyridopyrimidine, purine, pteridine, 4H-quinolizine, piperidine, pyrrolidine, oxazoline, isoxazolidine or thiazolidine; and

C1

the substituents, unless otherwise defined, are halogen, nitro, cyano, di-(C_1-C_4)-alkylamino, (C_1-C_4)-alkyl, (C_1-C_4)-trialkylsilyl, (C_1-C_4)-alkoxy, (C_1-C_4)-alkoxy-(C_1-C_4)-alkyl, (C_1-C_2)-alkoxy-$[CH_2CH_2]_{1,2}$-ethoxy, (C_1-C_4)-alkylthio, (C_1-C_4)-alkylsulfinyl, (C_1-C_4)-alkylsulfonyl, phenyl, benzyl, phenoxy, phenylthio, halophenoxy, (C_1-C_4)-alkylphenoxy, (C_1-C_4)-alkoxyphenoxy, (C_1-C_4)-alkylthiophenoxy, phenylthio, heterocyclyl, heterocyclylthio, heterocyclyloxy, haloheterocyclyloxy, alkylheterocyclyloxy or alkoxyheterocyclyloxy, wherein the alkyl radicals and the radicals derived therefrom one or more --and in the case of fluorine up to a maximum number of --hydrogen atom is optionally replaced by halogen.

26. (Previously Added) The acylsulfimide as claimed in claim 25, wherein Y is oxygen.

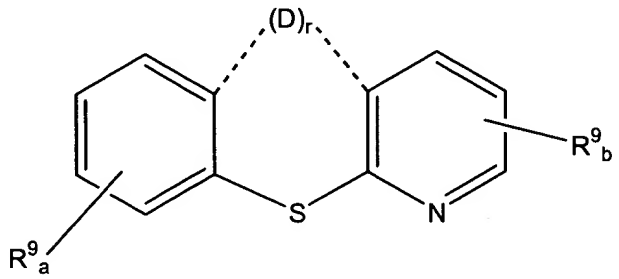
27. (Previously Added) The acylsulfimide as claimed in claim 25, wherein N is O.

28. (Previously Added) The acylsulfimide as claimed in claim 25, wherein $R^1$is a (C_1-C_6)-alkyl which is substituted by F and/or Cl.

29. (Previously Added) The acylsulfimide as claimed in claim 25, where the unit SR^4R^5 is a structure selected from the group consisting of

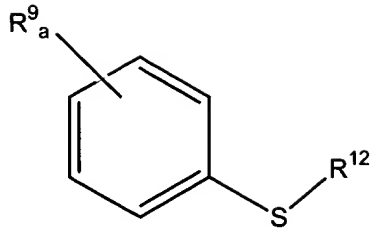
Cl

A.



wherein the symbols and indices have the following meanings:

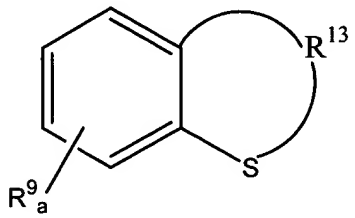
r	is 0, 1;
D	is a direct bond, (C_1-C_4)-alkylene, branched or unbranched, O, $S(O)_{0,1,2}$, or NR^a;
R^a	is H, (C_1-C_4)-alkyl, branched or unbranched, (C_1-C_4)-alkanoyl, (C_1-C_4)-alkoxycarbonyl, (C_1-C_4)-alkyl-or –dialkylaminocarbonyl or (C_1-C_4)-alkylsulfonyl;
a and b	are independently 0, 1, 2, 3 or 4

B. 

wherein the symbols and indices have the following meanings:

R^{12} is $(C_1\text{-}C_8)$-alkyl, optionally substituted by an optionally substituted phenyl radical or $(C_3\text{-}C_6)$-cycloalkyl radical, $(C_3\text{-}C_6)$-cycloalkyl, optionally substituted by or condensed with an optionally substituted phenyl radical;

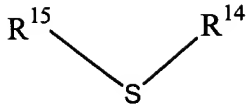
a is 0, 1, 2, 3, 4, or 5;

C. 

wherein the symbols and indices have the following meanings:

a is 0, 1, 2, 3 or 4;

R^{13} is a straight chain or branched $(C_2\text{-}C_8)$-alkanediyl group, optionally substituted by one or two or condensed with an optionally substituted phenyl radical;

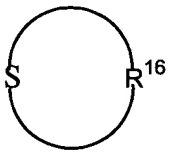
D. 

wherein the symbols and indices have the following meanings:

R^{14} and R^{15} are identical or different and are in each case $(C_1\text{-}C_8)$-alkyl, optionally substituted by or condensed with an optionally substituted phenyl radical or $(C_3\text{-}C_8)$-cycloalkyl radical, $(C_3\text{-}C_6)$-cycloalkyl, optionally substituted by or condensed with an optionally substituted phenyl radical;

C1

and

E. 

wherein the symbol has the following meaning:

R^{16} is a straight chain or branched $(C_2\text{-}C_6)$-alkanediyl group, optionally substituted by one or two or condensed with an optionally substituted phenyl radical.

30. (Currently Amended) A method for controlling arthropods which comprises applying or administering an effective amount of a compound as claimed in claim 25 to a site where said arthropods reside.

31. (Previously Added) The method according to claim 30, where the arthropod is an insect or acarid.

32. (Previously Added) The method according to claim 30, wherein the site is a plant seed.

33. (Currently Amended) A method for controlling helminths which comprises applying or administering an effective amount of a compound as claimed in claim 25 to a site where said helminths reside.

34. (Currently Amended) A composition for controlling arthropods or helminthes which comprises an effective amount of a compound according to claim 25 and a formulation auxiliary.

C1

35. (Previously Added) The composition according to claim 34, wherein the formulation auxiliary is a carrier or a surfactant.

36. (Currently Amended) A veterinary composition which comprises an effective amount of a compound according to claim 25 and a formulation auxiliary.

37. (New) The method according to claim 30 wherein the site is an animal.

38. (New) The method according to claim 30 wherein the site is a plant.

39. (New) The method according to claim 33 wherein the site is an animal.

40. (New) The method according to claim 33 wherein the site is a plant.